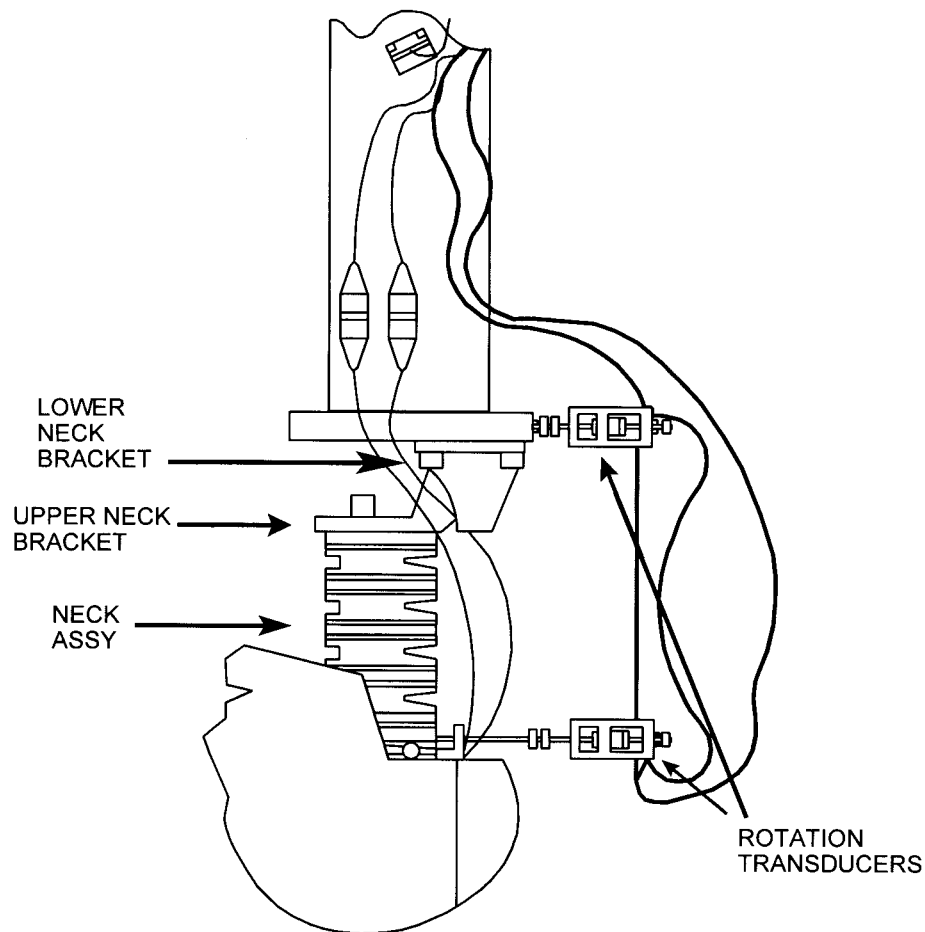


Figure 52
NECK PENDULUM TEST



§ 572.115 Lumbar spine and pelvis.

The specifications and test procedure for the lumbar spine and pelvis are identical to those for the SID dummy as set forth in § 572.42 except that the reference to the SID device found in § 572.42(a), (SA-SID-M001A revision A, dated May 18, 1994) does not apply and the reference to the SID/HIII (SA-

SIDH3-M001, dated April 19, 1997) is applied in its place.

§ 572.116 Instrumentation and test conditions.

(a) The test probe for lateral thoracic and pelvis impact tests are the same as those specified in § 572.44(a).

(b) Accelerometer mounting in the thorax is the same as specified in §572.44(b).

(c) Accelerometer mounting in the pelvis is the same as specified in §572.44(c).

(d) Head accelerometer mounting is the same as specified in §572.36(c).

(e) Neck transducer mounting is the same as specified in §572.36(d).

(f) Instrumentation and sensors used must conform to SAE Recommended Practice J211, March 1995, "Instrumentation for Impact Tests."

(g) The mountings for the spine, rib and pelvis accelerometers shall have no resonance frequency within a range of 3 times the frequency range of the applicable channel class.

(h) Limb joints of the test dummy shall be set at the force between 1 to 2 g's, which just supports the limb's weight when the limbs are extended horizontally forward. The force required to move a limb segment does not exceed 2 g's throughout the range of the limb motion.

(i) Performance tests must be conducted at a temperature between 20.6 and 22.2 degrees C. (69 to 72 degrees F.) and at a relative humidity between 10 percent and 70 percent after exposure of the dummy to those conditions for a period of at least four (4) hours.

(j) For the performance of tests specified in §572.114 and §572.115, the dummy is positioned the same as specified in §572.44(h).

Subpart N—Six-year-old Child Test Dummy, Alpha Version

SOURCE: 65 FR 2065, Jan. 13, 2000, unless otherwise noted.

§572.120 Incorporation by reference.

(a) The following materials are hereby incorporated into this subpart by reference:

(1) A drawings and inspection package entitled "Drawings and Specifications for the Hybrid III 6-year-old Dummy (August 1999)", consisting of:

(i) Drawing No. 127-1000, Head Assembly,

(ii) Drawing No. 127-1015, Neck Assembly,

(iii) Drawing No. 127-2000, Upper Torso Assembly,

(iv) Drawing No. 127-3000, Lower Torso Assembly,

(v) Drawing No. 127-4000, Leg Assembly,

(vi) Drawing No. 127-5000, Arm Assembly, and

(vii) The Hybrid III Six-year-old Parts List.

(2) A procedures manual entitled "Procedures for Assembly, Disassembly, and Inspection (PADI) of the Hybrid III 6-year-old Child Crash Test Dummy, Alpha Version (August 1999)";

(3) SAE Recommended Practice J211-1995 Instrumentation for Impact Tests—Parts 1 and 2, dated March, 1995";

(4) SAE J1733 Information Report, titled "Sign Convention for Vehicle Crash Testing", dated December 1994.

(b) The Director of the Federal Register approved those materials incorporated by reference in accordance with 5 U.S.C. 552(a) and 1 CFR part 51. Copies of the materials may be inspected at NHTSA's Technical Reference Library, 400 Seventh Street S.W., room 5109, Washington, DC, or at the Office of the Federal Register, 800 North Capitol Street, NW, Suite 700, Washington, DC.

(c) The incorporated materials are available as follows:

(1) The Drawings and Specifications for the Hybrid III 6-year-old Dummy (August 1999) referred to in paragraph (a)(1) of this section and the Procedures for Assembly, Disassembly, and Inspection (PADI) of the Hybrid III 6-year-old Child Crash Test Dummy, Alpha Version (August 1999) referred to in paragraph (a)(2) of this section, are available from Reprographic Technologies, 9000 Virginia Manor Road, Beltsville, MD 20705 (301) 419-5070.

(2) The SAE materials referred to in paragraphs (a)(3) and (a)(4) of this section are available from the Society of Automotive Engineers, Inc., 400 Commonwealth Drive, Warrendale, PA 15096.

§572.121 General description.

(a) The Hybrid III type 6-year-old dummy is defined by drawings and specifications containing the following materials: